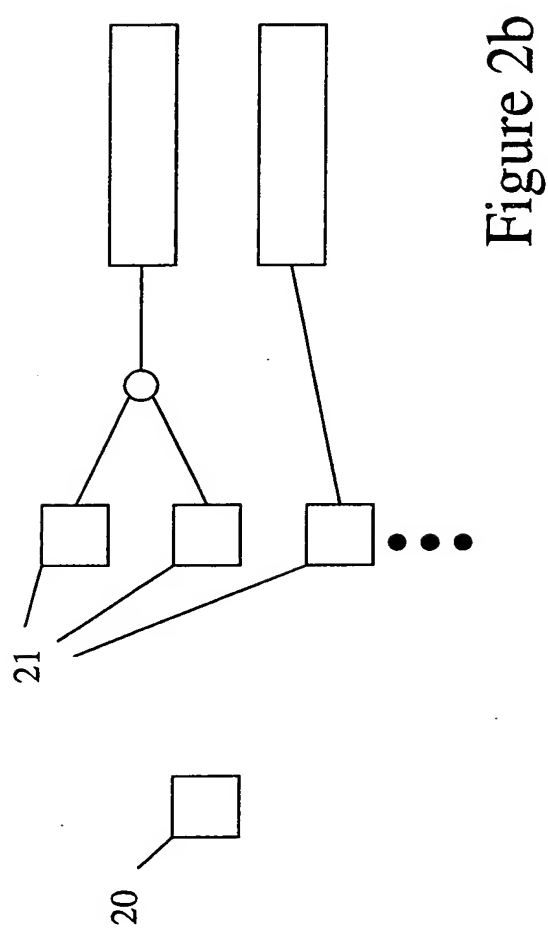
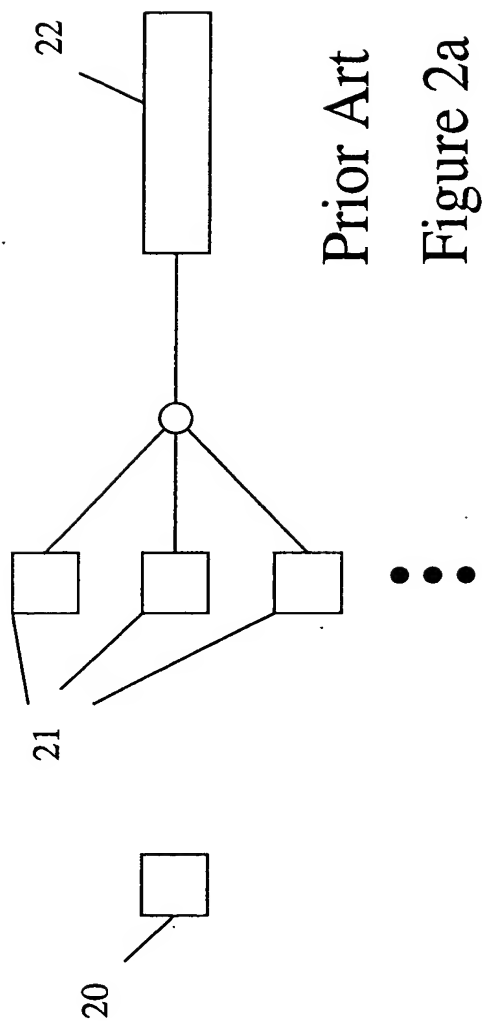
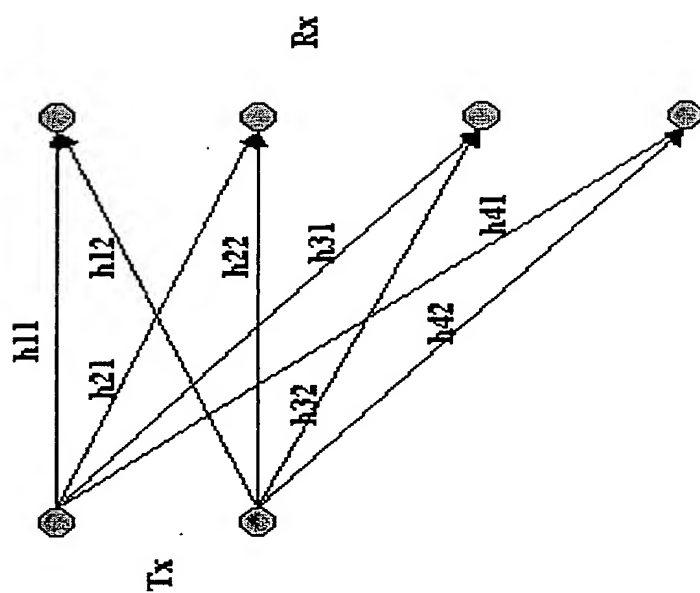


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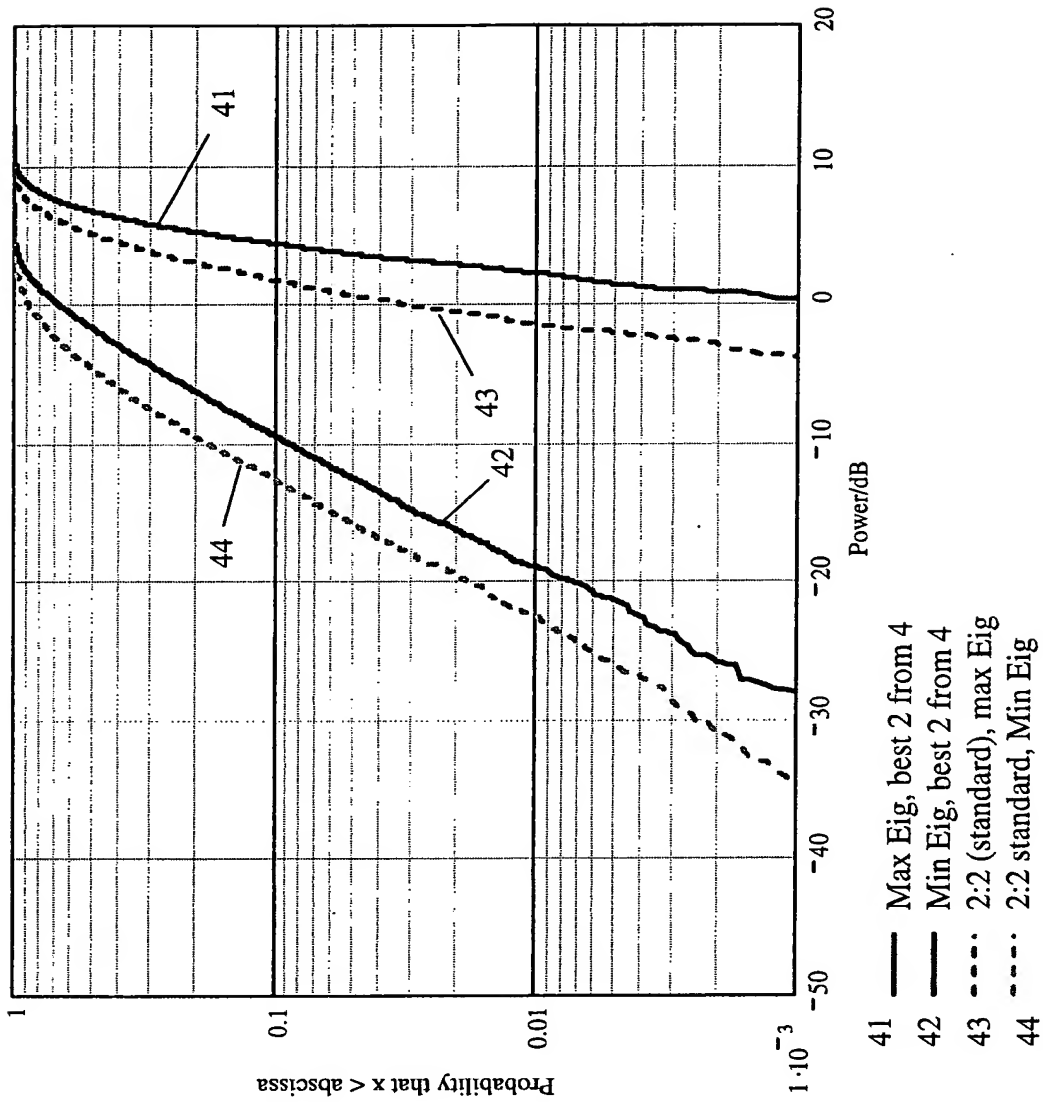
FIGURE 1





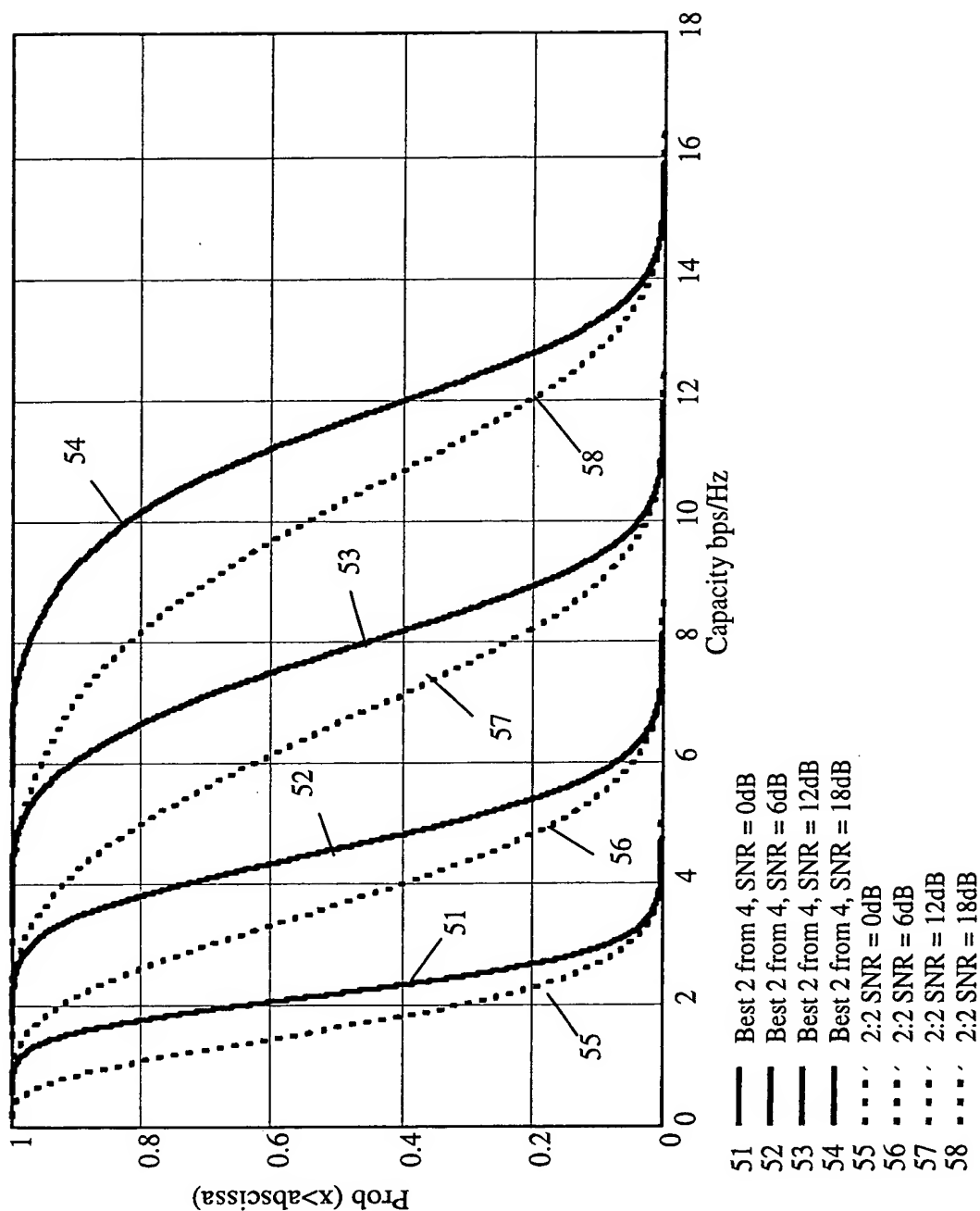
MIMO configuration with 2 Node B antennas and 4 UE antennas

Figure 3



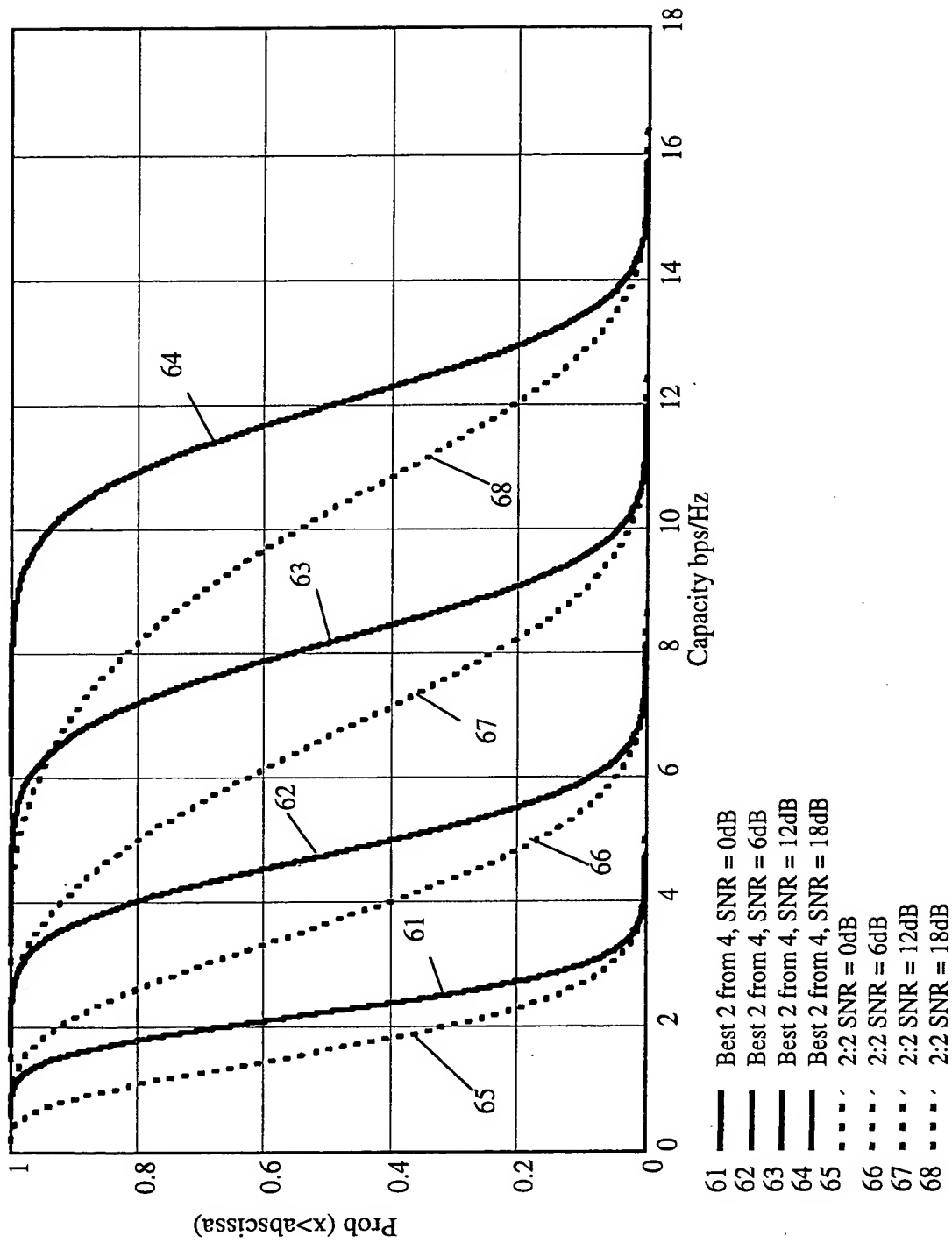
Comparison of eigenvalues for standard 2:2 MIMO and eigenvalue selection diversity (best 2 from 4) using the maximum sum of eigenvalues as the selection metric.

Figure 4



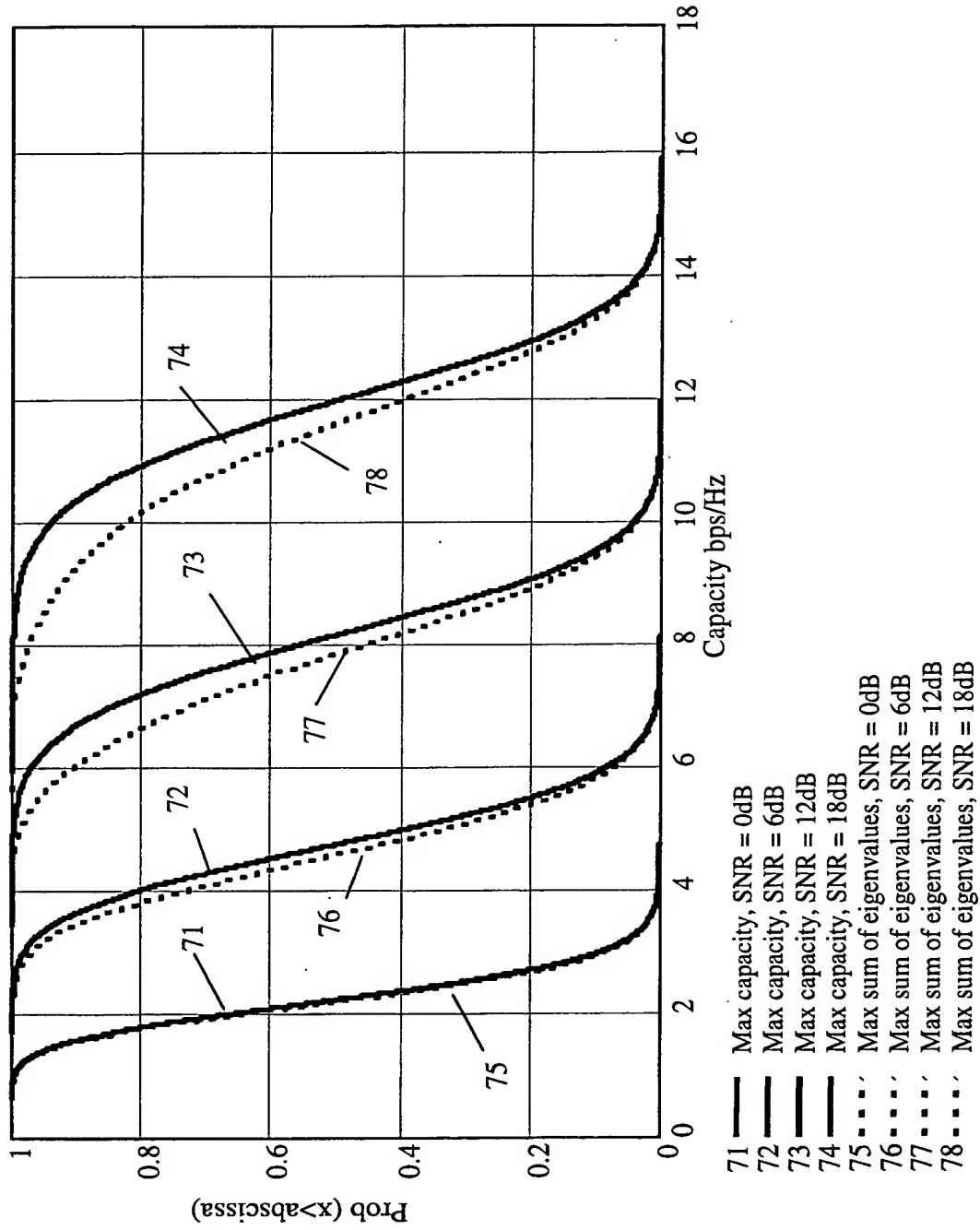
Comparison of capacity distributions for standard 2:2 MIMO and eigenvalue selection diversity (best 2 from 4) using the maximum sum of eigenvalues as the selection metric.

Figure 5



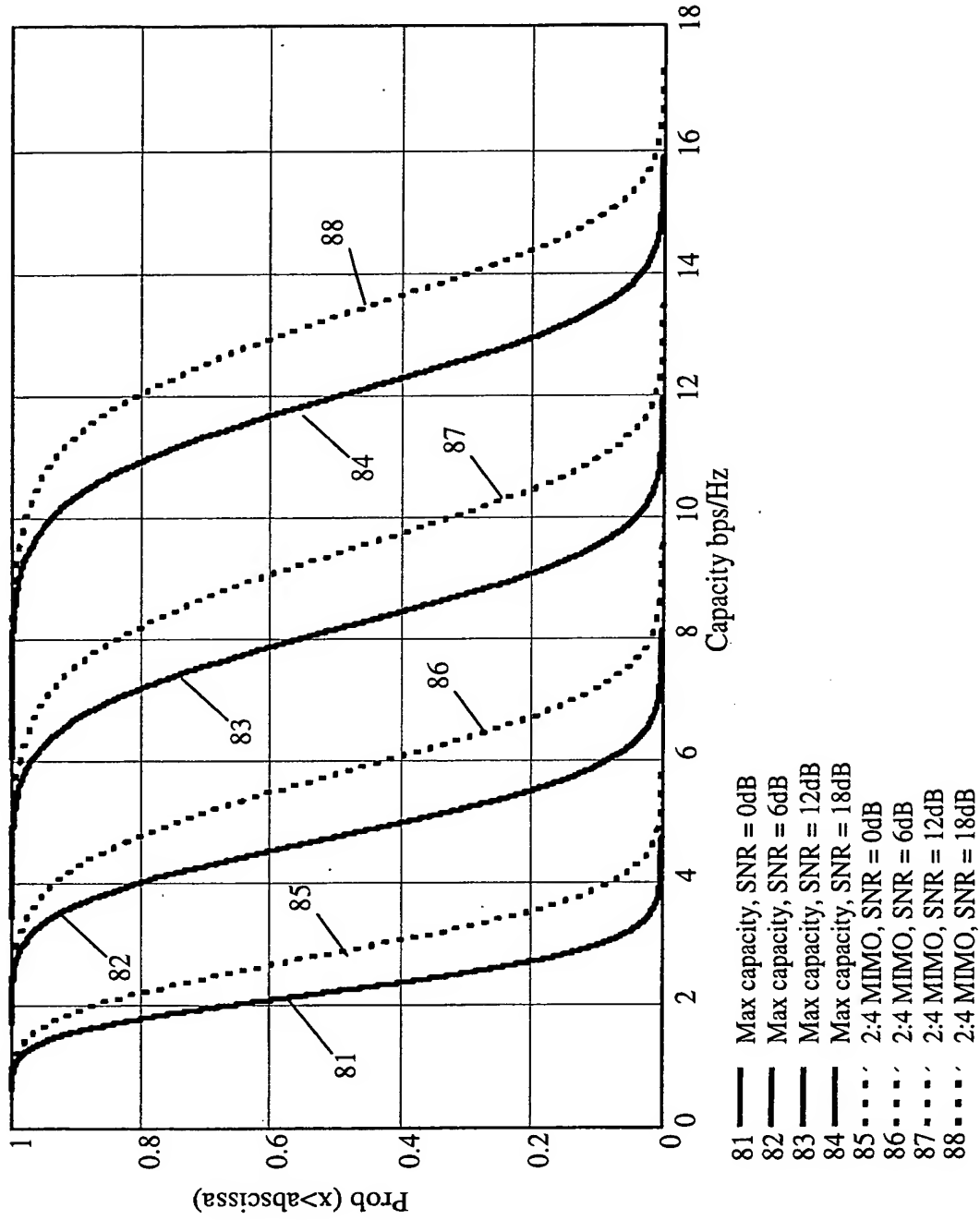
Comparison of capacity distributions for standard 2x2 MIMO and eigenvalue selection diversity (best 2 from 4) using the maximum instantaneous link capacity as the selection metric.

Figure 6



Comparison of capacity distributions for the two eigenvalue selection diversity schemes

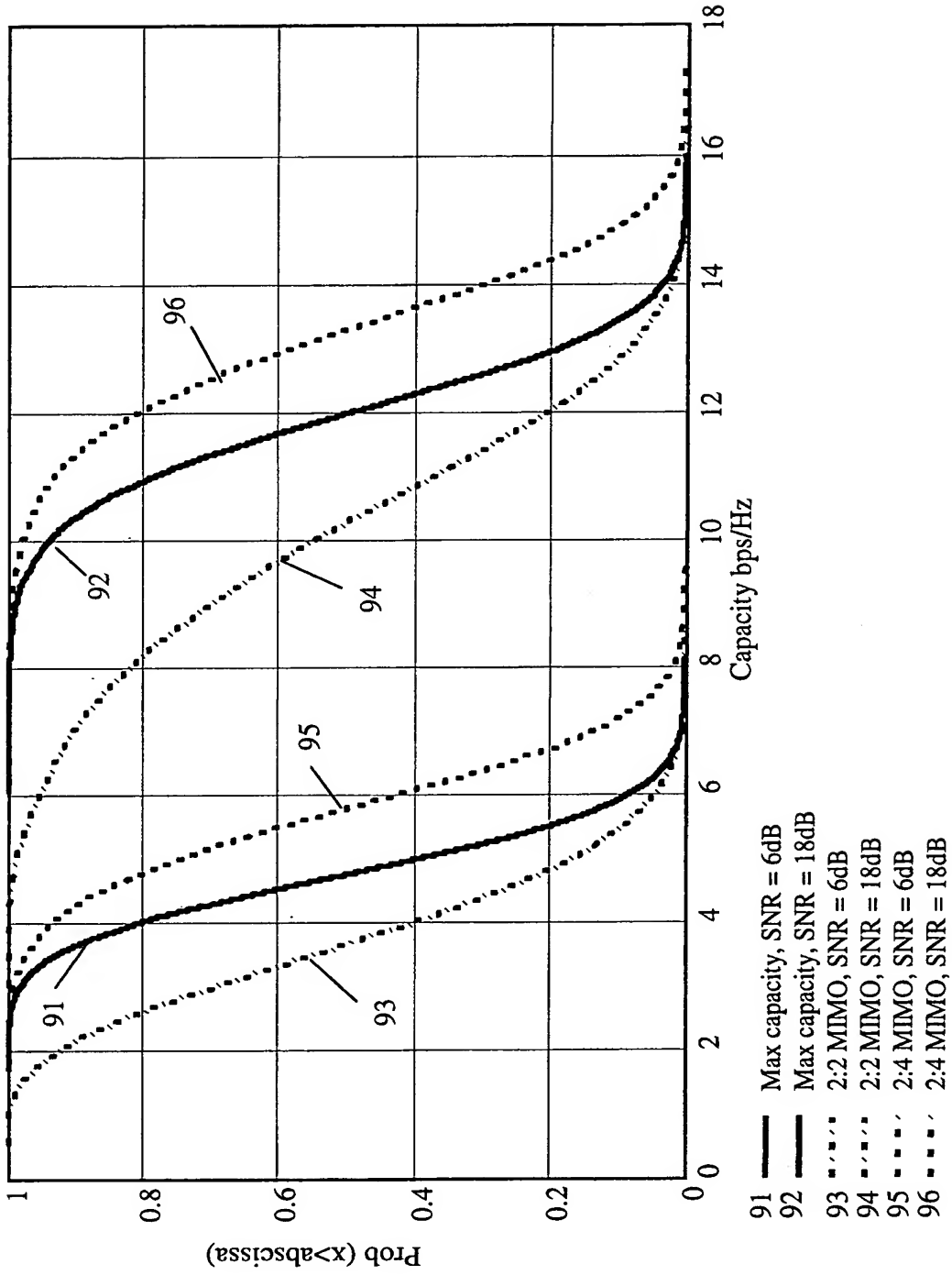
Figure 7



Comparison of 'maximum capacity' eigenvalue selection diversity and standard 2:4 MIMO capacity distributions.

Figure 8





Comparison of maximum capacity eigenvalue selection diversity with 2:2 and 2:4 MIMO capacity curves

Figure 9

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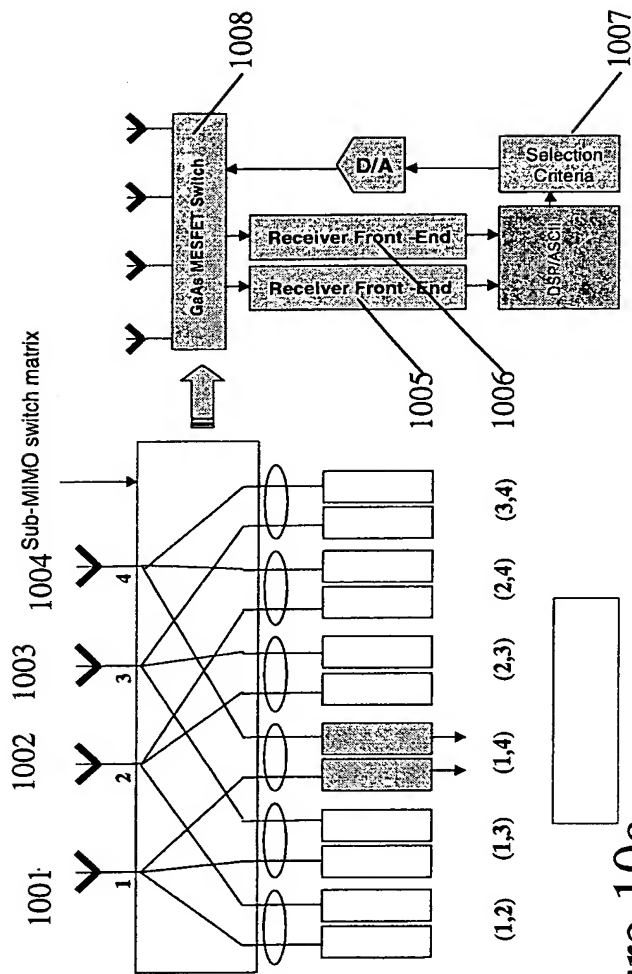


Figure 10a

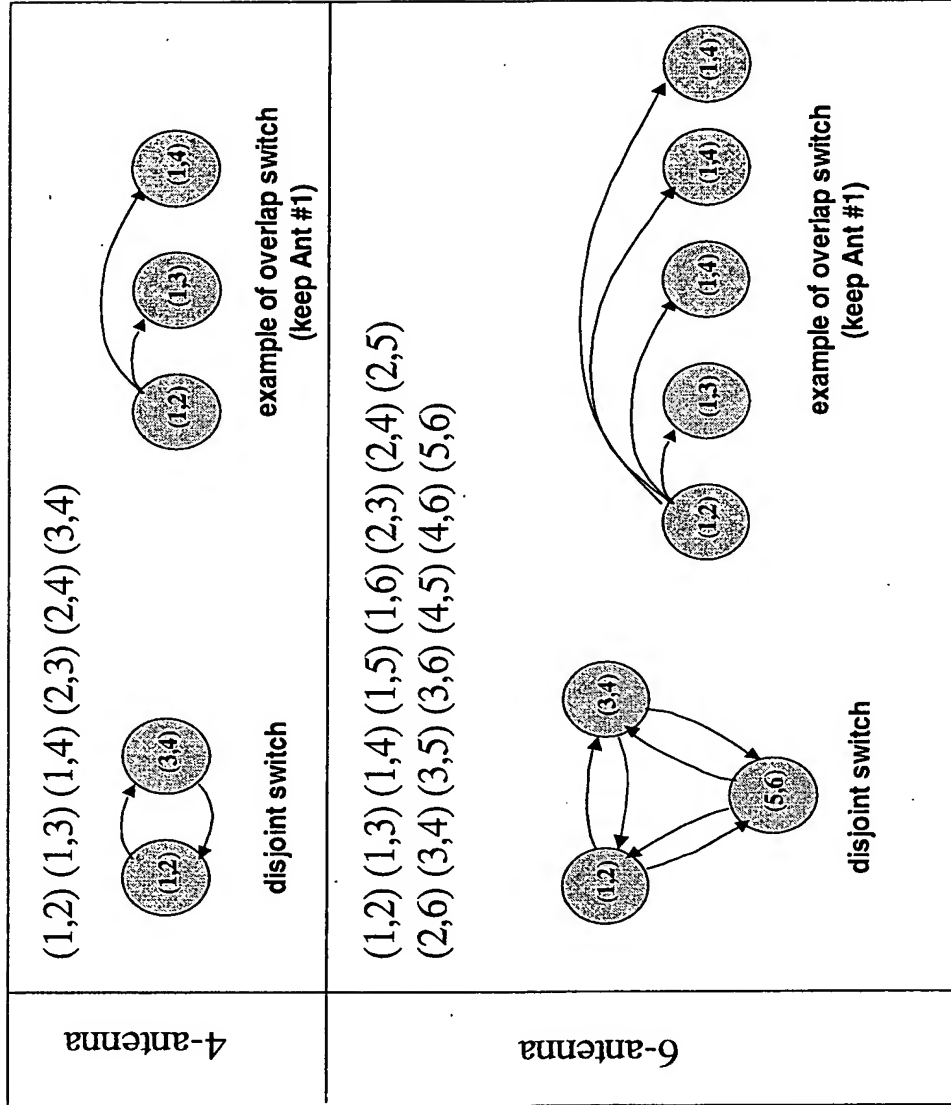


Figure 10b

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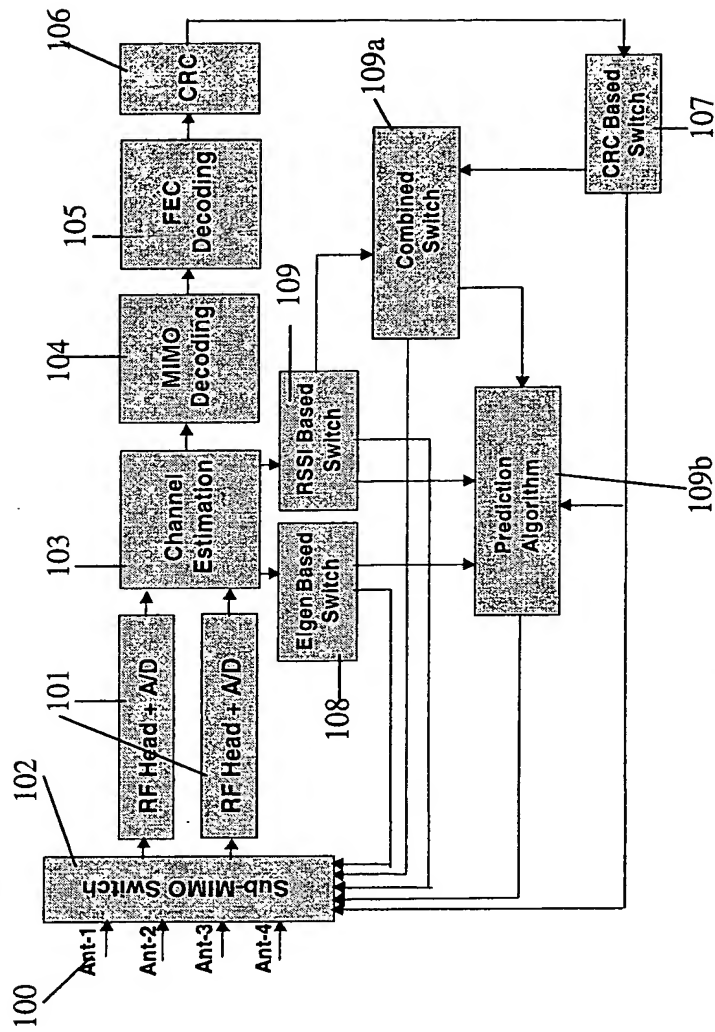


Figure 10c

# Sub-MIMO Switching Comparison

(STTD, ITU-VA, 100km/h, QPSK, R=1/3)

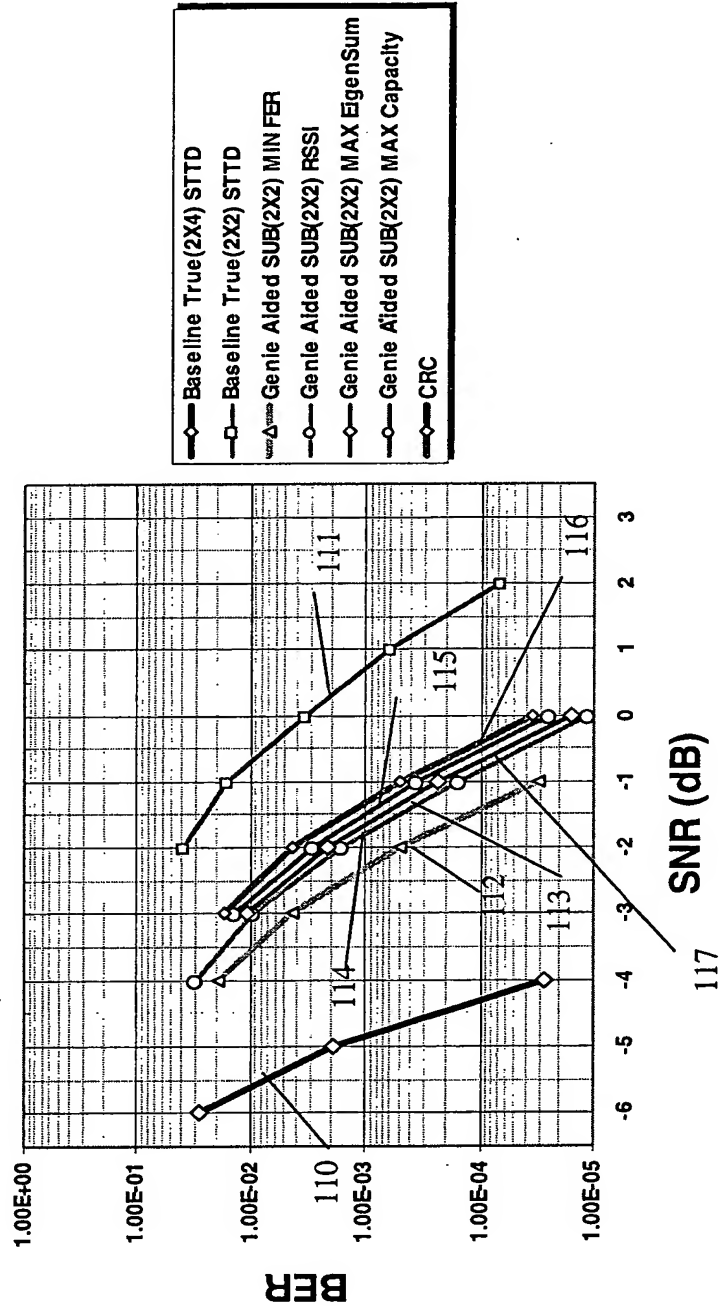


Figure 11

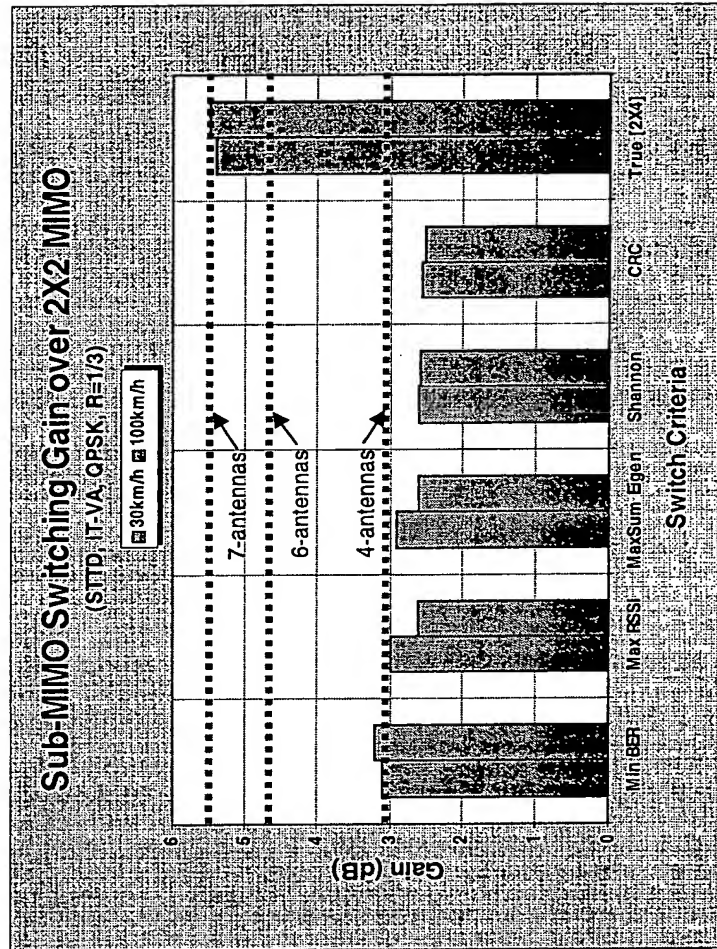


Figure 12

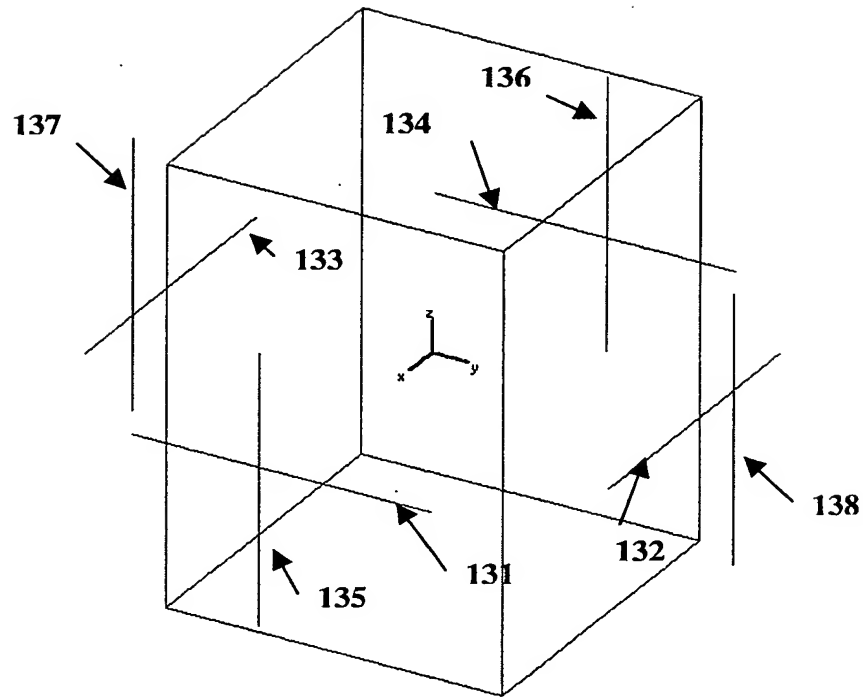


Figure 13

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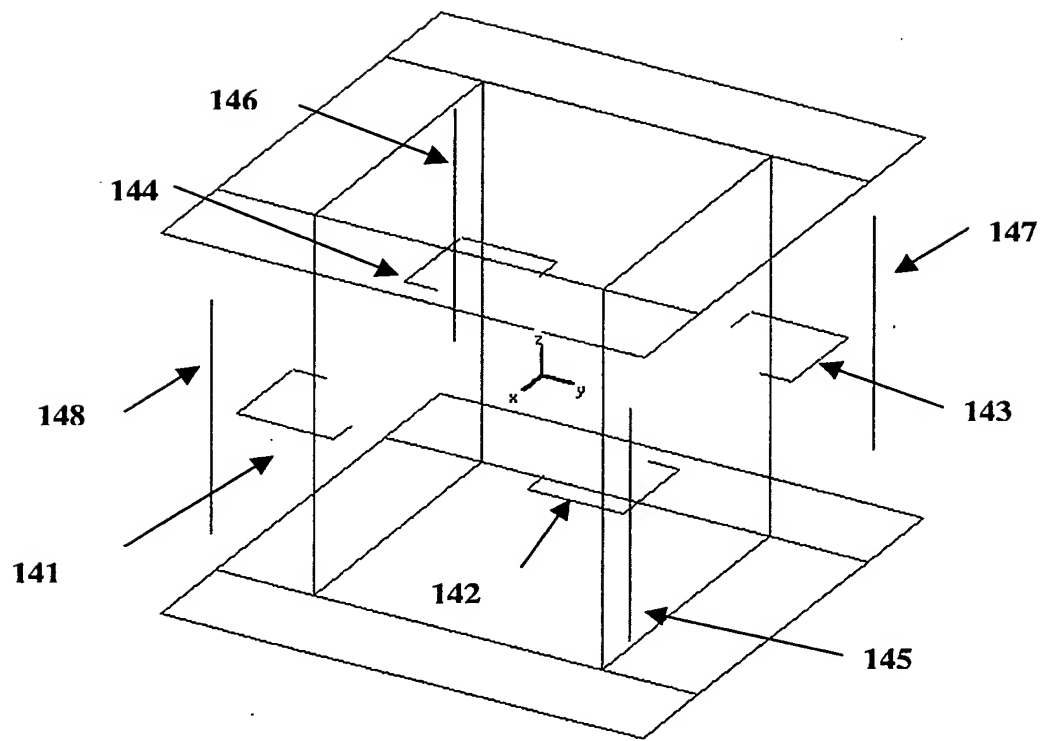


Figure 14



	Configuration 1		Configuration 2		
Average signal level (dB)	180°	4.6	180°	3.9	
	90°	6.7	90°	4.8	
Signal level spread (dB)	180°	1.4	180°	1.5	
	90°	0.5	90°	0.3	
Average standard deviation (dB)	180°	4.1	180°	1.7	
	90°	1.4	90°	0.4	
Lowest maximum achievable diversity gain (dB) (unit 0° orientation)	11.5		15		
Lowest maximum achievable diversity gain (dB) (unit 45° orientation)	14.5		14		

Figure 15

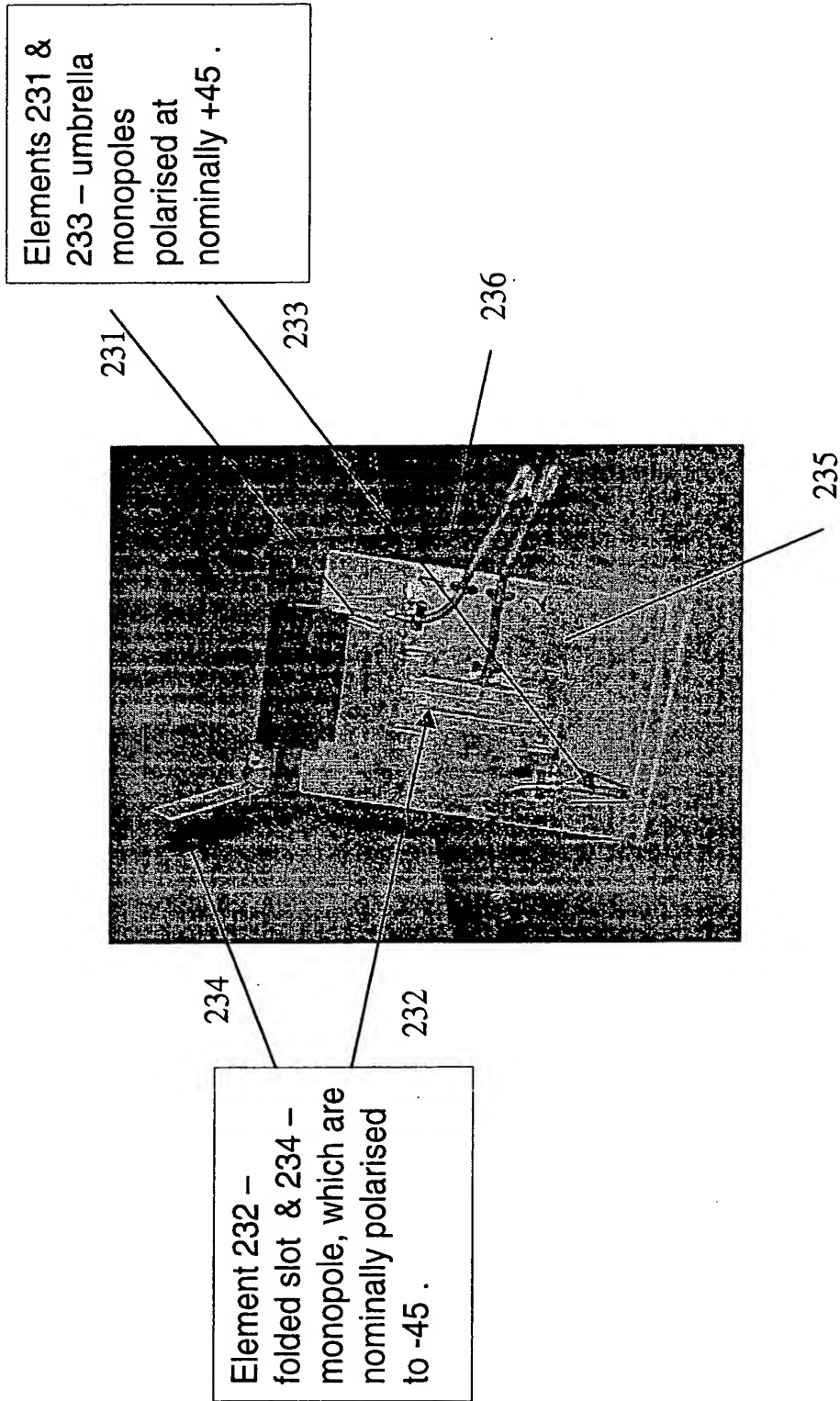


FIGURE 16

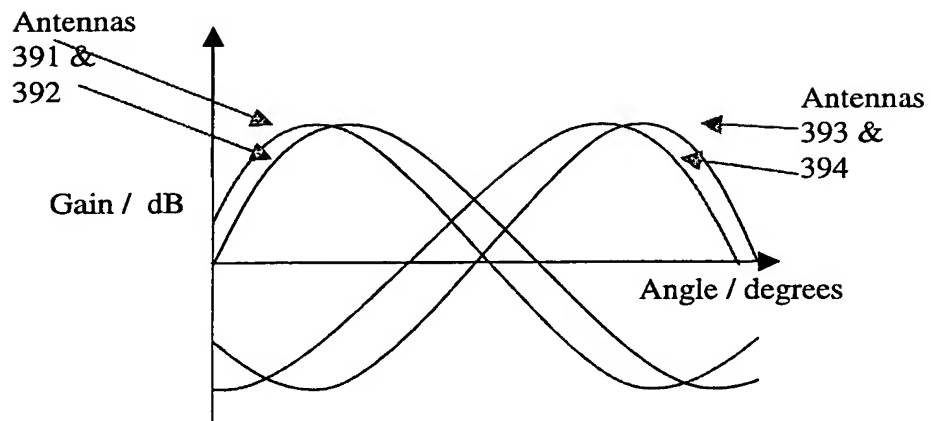


Figure 17

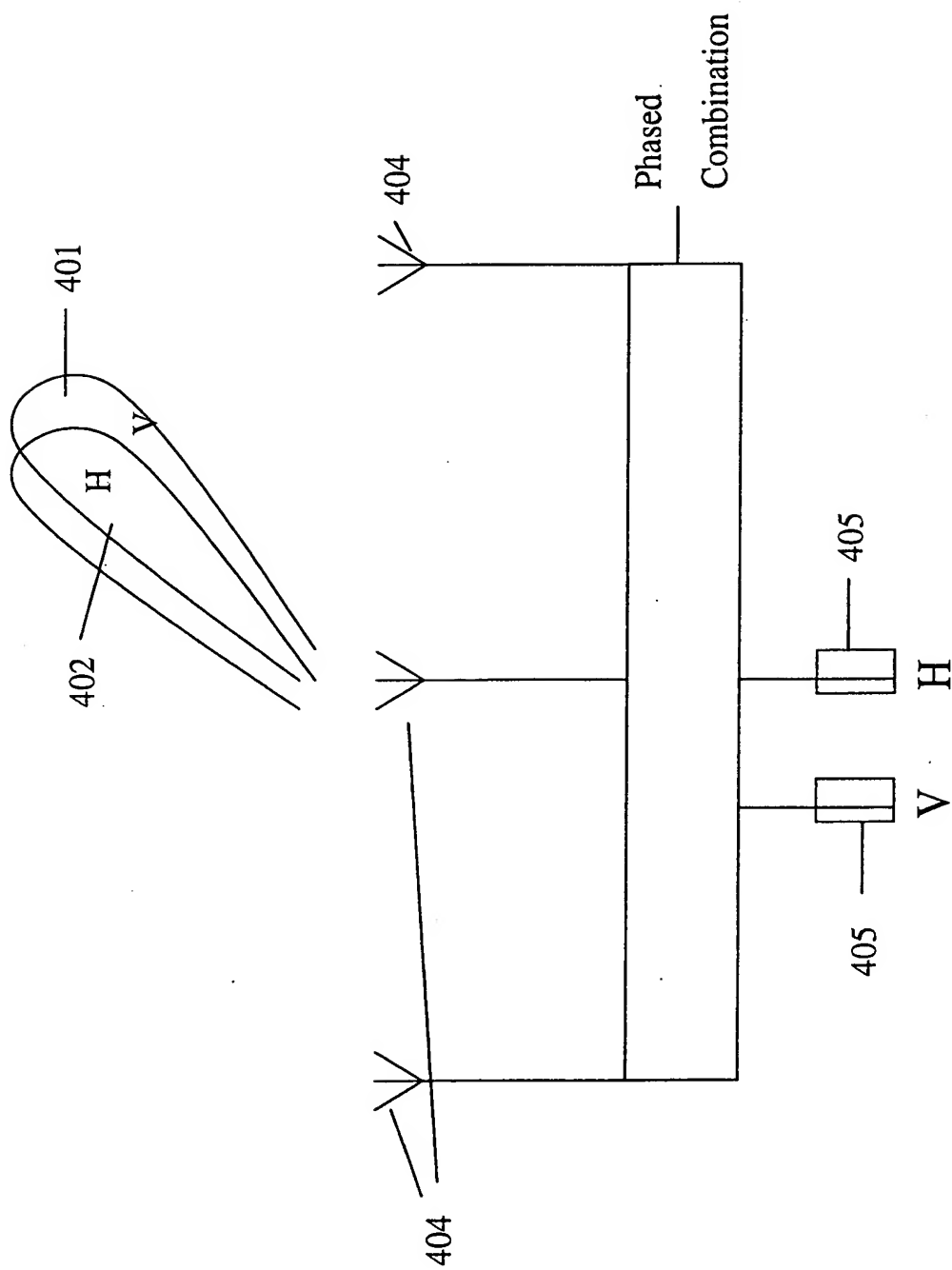


FIGURE 18